



Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-11 (cancelled without prejudice)

Claims 12 and 13 (withdrawn)

1 Claim 14 (new) A fuel cell power plant (110) comprising:
2 a fuel cell stack assembly (12); an inlet oxidant stream
3 (134,134') operatively connected to a fuel cell stack
4 assembly oxidant region inlet (36); a coolant loop (114)
5 operatively connected to a fuel cell stack assembly coolant
6 region inlet (48) and outlet (50), the coolant loop (114)
7 including a heat removal means (152, 156) configured to
8 transfer heat from a fuel cell stack assembly coolant; and
9 a humidifier (70) operatively connected in the coolant loop
10 (114) between the heat removal means (152, 156) and the
11 fuel cell stack assembly coolant region inlet (48) and
12 operatively connected in the inlet oxidant stream (134,
13 134'), the humidifier configured for both cooling the
14 coolant prior to return introduction of the coolant to the
15 fuel cell stack assembly (12) and for relatively increasing
16 the temperature and humidity of the inlet oxidant stream
17 (134, 134') prior to introduction of the inlet oxidant
18 stream to the fuel cell stack assembly oxidant region inlet
19 (36).

1 Claim **15** (new) The fuel cell power plant (110) of claim 1
2 wherein the heat removal means (152, 156) comprises a
3 radiator (152) and motorized fan (156).

1 Claim **16** (new) The fuel cell power plant (110) of claim 1
2 wherein the humidifier (70) comprises an energy recovery
3 device (70) for heat and mass transfer between the inlet
4 oxidant stream (134) and coolant (114''') being returned
5 from the heat removal means (152, 156) to the fuel cell
6 stack assembly (12).

1 Claim **17** (new) The fuel cell power plant (110) of claim **16**
2 wherein the energy recovery device (70) comprises a gas
3 flow chamber (72) and a liquid coolant flow chamber (74)
4 separated by a fine pore enthalpy exchange barrier (76).

1 Claim **18** (new) The fuel cell power plant (110) of claim **16**
2 wherein the energy recovery device (70) comprises a
3 saturator having the inlet oxidant stream (134) in direct
4 contact with coolant (114''') being returned from the heat
5 removal means (152, 156) to the fuel cell stack assembly
6 (12).